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1: J Gen Virol. 1990 Sep;71 ( Pt 9):2099-105.

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## Prediction and identification of a T cell epitope in the fusion protein of measles virus immunodominant in mice and humans.

**Partidos CD, Steward MW.**

Department of Clinical Sciences, London School of Hygiene and Tropical Medicine, U.K.

Amino acid residues 288 to 302 of the fusion protein of measles virus were predicted by a variety of methods to represent a putative T cell epitope. This sequence was synthesized and the peptide was injected into mice of six inbred strains to test this possibility. Lymphocytes from peptide-immunized mice from all six H-2 disparate strains were able to mount a proliferative response following in vitro culture with the peptide. In addition, lymphocytes from three strains also proliferated in the presence of live measles virus. The peptide also behaved as a B cell epitope in that immunization with free peptide in adjuvant resulted in anti-peptide antibody production in all mouse strains. However, these antibodies did not react with the virus in either a solid-phase immunoassay or a virus neutralization assay. Peripheral blood lymphocytes from 10 laboratory personnel with a prior history of exposure to measles virus were tested in a proliferation assay with the peptide and with the virus. Lymphocytes from all 10 individuals proliferated in response to culture with the virus and those from eight responded to the peptide. These results give further support to the concept of permissive interaction of antigenic peptides with a wide range of class II major histocompatibility complex molecules both in mice and man and indicate the possibility of designing peptides that could be used as components of a synthetic vaccine for use in man.

PMID: 2212993 [PubMed - indexed for MEDLINE]

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21. Document ID: US 6033904 A

L5: Entry 21 of 31

File: USPT

Mar 7, 2000

US-PAT-NO: 6033904

DOCUMENT-IDENTIFIER: US 6033904 A

TITLE: Recombinant swinepox virus

DATE-ISSUED: March 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cochran; Mark D.	Carlsbad	CA		
Junker; David E.	San Diego	CA		

US-CL-CURRENT: 435/320.1; 424/204.1, 424/232.1, 435/235.1, 435/69.1, 530/350

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

22. Document ID: US 6004777 A

L5: Entry 22 of 31

File: USPT

Dec 21, 1999

US-PAT-NO: 6004777

DOCUMENT-IDENTIFIER: US 6004777 A

TITLE: Vectors having enhanced expression, and methods of making and uses thereof

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tartaglia; James	Schenectady	NY		
Jacobs; Bertram L.	Phoenix	AZ		
Goebel; Scott J.	Ballston Spa	NY		
Cox; William I.	Sand Lake	NY		
Gettig; Russell Robert	Averill Park	NY		
Pincus; Steven E.	East Greenbush	NY		
<u>Paoletti; Enzo</u>	Delmar	NY		

US-CL-CURRENT: 435/69.1; 435/320.1, 435/91.41, 536/23.1, 536/23.72[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#) 23. Document ID: US 5997878 A

L5: Entry 23 of 31

File: USPT

Dec 7, 1999

US-PAT-NO: 5997878

DOCUMENT-IDENTIFIER: US 5997878 A

\*\* See image for Certificate of Correction \*\*

TITLE: Recombinant poxvirus-cytomegalovirus, compositions and uses

DATE-ISSUED: December 7, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Paoletti</u> ; Enzo	Delmar	NY		
Pincus; Steven E.	East Greenbush	NY		
Cox; William I.	Sand Lake	NY		
Kauffman; Elizabeth B.	Averill Park	NY		

US-CL-CURRENT: 424/199.1; 424/230.1, 424/232.1, 435/235.1, 435/320.1, 435/69.1,  
435/69.3[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#) 24. Document ID: US 5990091 A

L5: Entry 24 of 31

File: USPT

Nov 23, 1999

US-PAT-NO: 5990091

DOCUMENT-IDENTIFIER: US 5990091 A

TITLE: Vectors having enhanced expression, and methods of making and uses thereof

DATE-ISSUED: November 23, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tartaglia; James	Schenectady	NY		
Cox; William I.	Sand Lake	NY		
Gettig; Russell Robert	Averill Park	NY		
Martinez; Hector	Menands	NY		
<u>Paoletti</u> ; Enzo	Delmar	NY		
Pincus; Steven E.	East Greenbush	NY		

US-CL-CURRENT: 514/44; 424/93.2, 435/320.1, 435/69.1, 435/91.4, 435/91.41

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25. Document ID: US 5965138 A

L5: Entry 25 of 31

File: USPT

Oct 12, 1999

US-PAT-NO: 5965138

DOCUMENT-IDENTIFIER: US 5965138 A

TITLE: Recombinant chimeric virus and uses thereof

DATE-ISSUED: October 12, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cochran; Mark D.	Carlsbad	CA		
Junker; David E.	San Diego	CA		
Wild; Martha A.	San Diego	CA		
Singer; Phillip A.	San Diego	CA		

US-CL-CURRENT: 424/199.1, 424/186.1, 424/201.1, 424/202.1, 424/204.1, 424/214.1,  
424/222.1, 424/229.1, 435/235.1, 435/320.1, 435/69.1, 536/23.2, 536/23.51,  
536/23.52, 536/23.72, 536/24.2

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26. Document ID: US 5843456 A

L5: Entry 26 of 31

File: USPT

Dec 1, 1998

US-PAT-NO: 5843456

DOCUMENT-IDENTIFIER: US 5843456 A

TITLE: Alvac poxvirus-rabies compositions and combination compositions and uses

DATE-ISSUED: December 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Paoletti</u> ; Enzo	Delmar	NY		
Maki; Joanne	Colbert	GA		

US-CL-CURRENT: 424/199.1, 424/201.1, 424/202.1, 424/204.1, 424/205.1, 424/218.1,  
424/224.1, 435/235.1, 435/252.3, 435/320.1, 435/69.3, 514/2, 530/350, 530/826

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27. Document ID: US 5759841 A

L5: Entry 27 of 31

File: USPT

Jun 2, 1998

US-PAT-NO: 5759841

DOCUMENT-IDENTIFIER: US 5759841 A

TITLE: Immunological composition of measles virus utilizing recombinant poxvirus

DATE-ISSUED: June 2, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Paoletti</u> ; Enzo	Delmar	NY		
Taylor; Jill	Albany	NY		

US-CL-CURRENT: 435/235.1; 424/199.1, 424/211.1, 424/212.1, 424/232.1, 435/320.1,  
530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Drawn D.
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 28. Document ID: US 5756102 A

L5: Entry 28 of 31

File: USPT

May 26, 1998

US-PAT-NO: 5756102

DOCUMENT-IDENTIFIER: US 5756102 A

TITLE: Poxvirus-canine distemper virus (CDV) recombinants and compositions and methods employing the recombinants

DATE-ISSUED: May 26, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Paoletti</u> ; Enzo	Delmar	NY		
Tartaglia; James	Schenectady	NY		
Taylor; Jill	Albany	NY		

US-CL-CURRENT: 424/199.1; 424/213.1, 424/232.1, 435/235.1, 435/320.1, 435/69.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Drawn D.
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 29. Document ID: US 5718902 A

L5: Entry 29 of 31

File: USPT

Feb 17, 1998

US-PAT-NO: 5718902

DOCUMENT-IDENTIFIER: US 5718902 A

TITLE: Double recombinant vaccinia virus vaccines

DATE-ISSUED: February 17, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yilma; Tilahun D.	Davis	CA		
Giavedoni; Luis D.	Davis	CA		

US-CL-CURRENT: 424/211.1; 424/184.1, 424/192.1, 435/463, 435/948, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Drawn D
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 30. Document ID: US 5661006 A

L5: Entry 30 of 31

File: USPT

Aug 26, 1997

US-PAT-NO: 5661006

DOCUMENT-IDENTIFIER: US 5661006 A

TITLE: DNA encoding the Canine coronavirus spike protein

DATE-ISSUED: August 26, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brown; Thomas David Kay	Needingworth			GB2
Horsburgh; Brian Colin	Cambridge			GB2

US-CL-CURRENT: 435/69.3; 435/252.3, 435/320.1, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Drawn D
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1: [Ghosh S, Walker J, Jackson DC.](#)

Related Articles, Links

Identification of canine helper T-cell epitopes from the fusion protein of canine distemper virus.

Immunology. 2001 Sep;104(1):58-66.

PMID: 11576221 [PubMed - indexed for MEDLINE]

2: [Jung MJ, Moon YC, Cho IH, Yeh JY, Kim SE, Chang WS, Park SY, Song CS, Kim HY, Park KK, McOrist S, Choi IS, Lee JB.](#)

Related Articles, Links

Induction of castration by immunization of male dogs with recombinant gonadotropin-releasing hormone (GnRH)-canine distemper virus (CDV) T helper cell epitope p35.

J Vet Sci. 2005 Mar;6(1):21-4.

PMID: 15785119 [PubMed - indexed for MEDLINE]

3: [Obeid OE, Partidos CD, Howard CR, Steward MW.](#)

Related Articles, Links

Protection against morbillivirus-induced encephalitis by immunization with a rationally designed synthetic peptide vaccine containing B- and T-cell epitopes from the fusion protein of measles virus.

J Virol. 1995 Mar;69(3):1420-8.

PMID: 7531779 [PubMed - indexed for MEDLINE]

4: [Lonning SM, Zhang W, McGuire TC.](#)

Related Articles, Links

Gag protein epitopes recognized by CD4(+) T-helper lymphocytes from equine infectious anemia virus-infected carrier horses.

J Virol. 1999 May;73(5):4257-65.

PMID: 10196322 [PubMed - indexed for MEDLINE]

5: [Taylor J, Pincus S, Tartaglia J, Richardson C, Alkhatib G, Briedis D, Appel M, Norton E, Paoletti E.](#)

Related Articles, Links

Vaccinia virus recombinants expressing either the measles virus fusion or hemagglutinin glycoprotein protect dogs against canine distemper virus challenge.

J Virol. 1991 Aug;65(8):4263-74.

PMID: 1830113 [PubMed - indexed for MEDLINE]

6: [An LL, Whitton JL.](#)

Related Articles, Links

A multivalent minigene vaccine, containing B-cell, cytotoxic T-lymphocyte, and Th epitopes from several microbes, induces appropriate responses in vivo and confers protection against more than one pathogen.

J Virol. 1997 Mar;71(3):2292-302.

PMID: 9032365 [PubMed - indexed for MEDLINE]

7: [McNeel DG, Nguyen LD, Disis ML.](#) [Related Articles](#), [Links](#)  
 Identification of T helper epitopes from prostatic acid phosphatase.  
Cancer Res. 2001 Jul 1;61(13):5161-7.  
PMID: 11431355 [PubMed - indexed for MEDLINE]

8: [Olszewska W, Obeid OE, Steward MW.](#) [Related Articles](#), [Links](#)  
 Protection against measles virus-induced encephalitis by anti-mimotope antibodies: the role of antibody affinity.  
Virology. 2000 Jun 20;272(1):98-105.  
PMID: 10873752 [PubMed - indexed for MEDLINE]

9: [Beauverger P, Chadwick J, Buckland R, Wild TF.](#) [Related Articles](#), [Links](#)  
 Serotype-specific and canine distemper virus cross-reactive H-2K<sup>k</sup>-restricted cytotoxic T lymphocyte epitopes in the measles virus nucleoprotein.  
Virology. 1994 Aug 15;203(1):172-7.  
PMID: 7518168 [PubMed - indexed for MEDLINE]

10: [Doh H, Roh S, Lee KW, Kim K.](#) [Related Articles](#), [Links](#)  
 Response of primed human PBMC to synthetic peptides derived from hepatitis B virus envelope proteins: a search for promiscuous epitopes.  
FEMS Immunol Med Microbiol. 2003 Jan 21;35(1):77-85.  
PMID: 12589960 [PubMed - indexed for MEDLINE]

11: [Blanco E, McCullough K, Summerfield A, Fiorini J, Andreu D, Chiva C, Borras E, Barnett P, Sobrino F.](#) [Related Articles](#), [Links](#)  
 Interspecies major histocompatibility complex-restricted Th cell epitope on foot-and-mouth disease virus capsid protein VP4.  
J Virol. 2000 May;74(10):4902-7.  
PMID: 10775633 [PubMed - indexed for MEDLINE]

12: [Muir S, Kobasa D, Bittle J, Scraba D.](#) [Related Articles](#), [Links](#)  
 Identification of Mengo virus T helper cell epitopes.  
J Gen Virol. 1994 Nov;75 ( Pt 11):2925-36.  
PMID: 7525861 [PubMed - indexed for MEDLINE]

13: [Snijders A, Benaissa-Trouw BJ, Visser-Vernooy HJ, Fernandez I, Snippe H, Kraaijeveld CA.](#) [Related Articles](#), [Links](#)  
 A delayed-type hypersensitivity-inducing T-cell epitope of Semliki Forest virus mediates effective T-helper activity for antibody production.  
Immunology. 1992 Nov;77(3):322-9.  
PMID: 1282493 [PubMed - indexed for MEDLINE]

14: [Sanchez G, Pinto RM, Bosch A.](#) [Related Articles](#), [Links](#)  
 A novel CD4+ T-helper lymphocyte epitope in the VP3 protein of hepatitis A virus.  
J Med Virol. 2004 Apr;72(4):525-32.  
PMID: 14981753 [PubMed - indexed for MEDLINE]

15: [Steward MW, Stanley CM, Obeid OE.](#) [Related Articles](#), [Links](#)  
 A mimotope from a solid-phase peptide library induces a measles virus-neutralizing and protective antibody response.  
J Virol. 1995 Dec;69(12):7668-73.

PMID: 7494275 [PubMed - indexed for MEDLINE]

16: [Brons NH, Blaich A, Wiesmuller KH, Schneider F, Jung G, Muller CP.](#) [Related Articles](#), [Links](#)  
 Hierarchic T-cell help to non-linked B-cell epitopes.  
*Scand J Immunol.* 1996 Nov;44(5):478-84.  
PMID: 8947599 [PubMed - indexed for MEDLINE]

17: [Armengol E, Wiesmuller KH, Wienhold D, Buttner M, Pfaff E, Jung G, Saalmuller A.](#) [Related Articles](#), [Links](#)  
 Identification of T-cell epitopes in the structural and non-structural proteins of classical swine fever virus.  
*J Gen Virol.* 2002 Mar;83(Pt 3):551-60.  
PMID: 11842250 [PubMed - indexed for MEDLINE]

18: [Subramanian S, Andal S, Karande AA, Radhakantha Adiga P.](#) [Related Articles](#), [Links](#)  
 Epitope mapping and evaluation of specificity of T-helper sites in four major antigenic peptides of chicken riboflavin carrier protein in outbred rats.  
*Biochem Biophys Res Commun.* 2003 Nov 7;311(1):11-6.  
PMID: 14575688 [PubMed - indexed for MEDLINE]

19: [Reece JC, McGregor DL, Geysen HM, Rodda SJ.](#) [Related Articles](#), [Links](#)  
 Scanning for T helper epitopes with human PBMC using pools of short synthetic peptides.  
*J Immunol Methods.* 1994 Jun 24;172(2):241-54.  
PMID: 7518486 [PubMed - indexed for MEDLINE]

20: [Roehrig JT, Risi PA, Brubaker JR, Hunt AR, Beaty BJ, Trent DW, Mathews JH.](#) [Related Articles](#), [Links](#)  
 T-helper cell epitopes on the E-glycoprotein of dengue 2 Jamaica virus.  
*Virology.* 1994 Jan;198(1):31-8.  
PMID: 7505071 [PubMed - indexed for MEDLINE]

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<input type="checkbox"/>	L2	L1 and paoletti	0
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